1. Write a C program that prints all even numbers between 1 and n (inclusive), where n is taken as input.
2. Write a C program that accepts two integers and prints true if either one is 5 or their sum or difference is 5.
3. Write a C program to check whether a given non-negative number is a multiple of 3 or 7, but not both.  For example: inputs 7, 3, 6, 14 should output yes. Inputting 21, 42 should output no.
4. Write a C program that reads an integer between 1 and 12 and print the month of the year in English. Use switch case.

Input :

Input a number between 1 to 12 to get the month name: 8

Expected Output:

August

1. Write a C program that will first read an integer n, then read n integers. From those, it will find the sum of even integers.

Example:

Enter n: 5  
Input 5 integers: 2 3 5 6 7

Sum of even integers = 8

1. Write a C program to read temperature in centigrade and display a suitable message according to temperature state below :

Temp < 0 then Freezing weather

Temp 0-10 then Very Cold weather

Temp 10-20 then Cold weather

Temp 20-30 then Normal in Temp

Temp 30-40 then Its Hot

Temp >=40 then Its Very Hot

Test Data :

42

*Expected Output* :

Its very hot.

1. Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene.

Test Data :

50 50 60

*Expected Output* :

This is an isosceles triangle.

1. Write a C program to check whether an alphabet is a vowel or consonant.
2. Fizzbuzz is a very well known problem. Given a positive integer N, you need to print n lines.

For multiples of **3**, you should print Fizz.

For the multiples of **5**, you should print Buzz.

For numbers which are multiple of **3** and **5** both, print “FizzBuzz”.

        In other cases, print the current line number.

**Example**

Input: 5

Output:

1

2

Fizz

4

Buzz

1. Write a program in C to display the cube of the number upto given an integer.

Test Data :

Input number of terms : 5

*Expected Output* :

Number is : 1 and cube of the 1 is :1

Number is : 2 and cube of the 2 is :8

Number is : 3 and cube of the 3 is :27

Number is : 4 and cube of the 4 is :64

Number is : 5 and cube of the 5 is :125

1. Write a program in C that takes two inputs x and y and prints all numbers that are multiples of x but divisors of y.  If there are none, print no such integers.

Test Data :

5 20

*Expected Output* :

5 10 20

Test Data :

6 20

*Expected Output* :

No such integers

1. Write a C program to find all roots of a quadratic equation (ax^2 + bx + c = 0). Mention the number of roots and Then list all of them.

**Example**

**Input**

Input a: 8

Input b: -4

Input c: -2

**Output**

There are two roos.

Root1: 0.80

Root2: -0.30

1. Write a C program to input sides of a triangle and check whether triangle is valid or not using if else.

**Example**

**Input**

Input first side: 7

Input second side: 10

Input third side: 5

**Output**

Triangle is valid

1. Remember the program we wrote to calculate the GPA of a student. Update it so that it can calculate the GPA of multiple terms and finally output the overall CGPA. For simplicity assume that CGPA is the average of all terms GPA.

**Example**

**Input**

Enter number of terms: 2

Term 1:

Enter number of Subjects: 3

Enter Marks Subject 1: 80

Grade = A+, Points = 5.00

Enter Marks Subject 2: 70

Grade = A, Points = 4.00

Enter Marks Subject 3: 65

Grade = B, Points = 3.00

Term GPA: 4.00

Term 2:

Enter number of Subjects: 3

Enter Marks Subject 1: 50

Grade = C, Points = 2.00

Enter Marks Subject 2: 70

Grade = A, Points = 4.00

Enter Marks Subject 3: 65

Grade = B, Points = 3.00

Term GPA: 3.00

Overall CGPA = 3.50